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Flowchart of the invention process"Experimental" targets (1)

Cells  
 ↓  
 Enrich for antigen binding cells  
 Enrich for specific cell population  
 ↓  
 Extract DNA or RNA  
 ↓  
 Label specific for target encoding

Probe set (2)

Probes design  
 ↓  
 Probes manufacture  
 ↓

Probes immobilized as an array

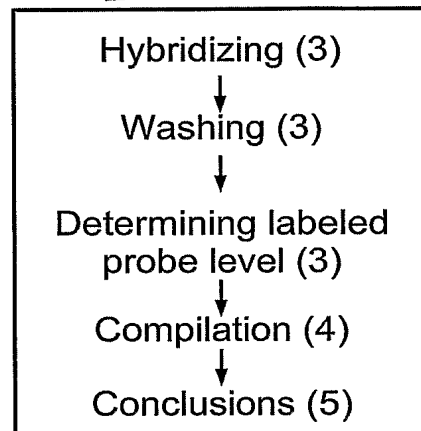


Fig. 1

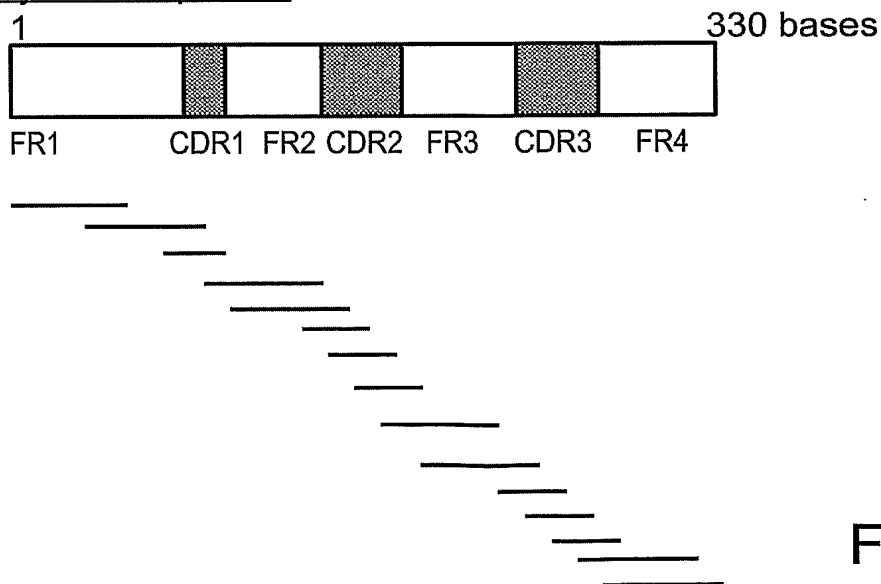
Illustration of the variable region gene and an example of overlapping positively labeled probes

Fig. 2

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Examples of multiple sample experiment. The probe arrays represented have the same content.

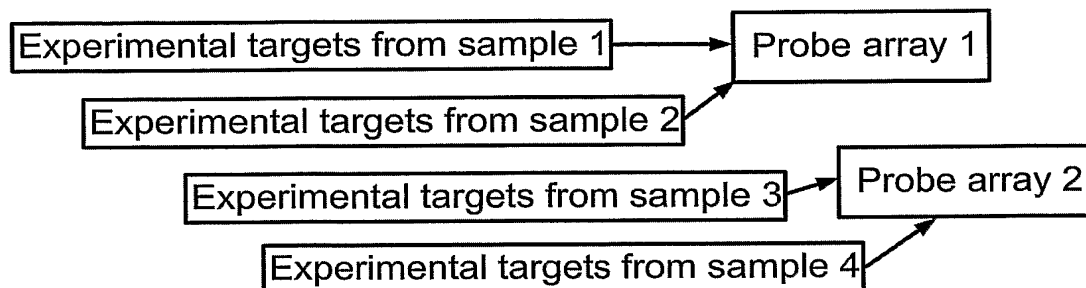


Fig. 3a

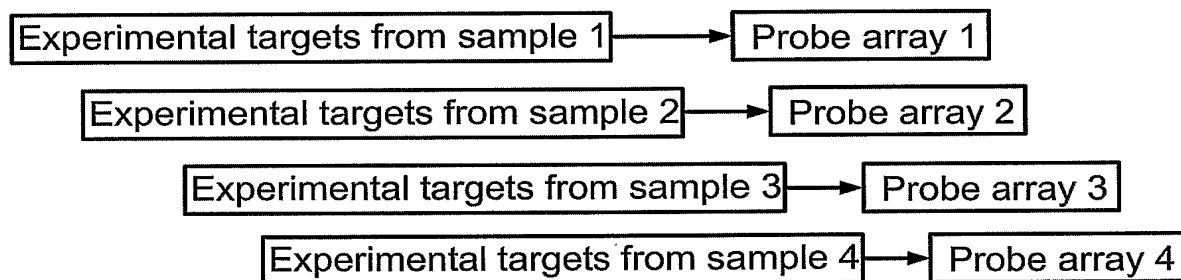


Fig. 3b

Scheme illustrating end labeled plus and minus strand

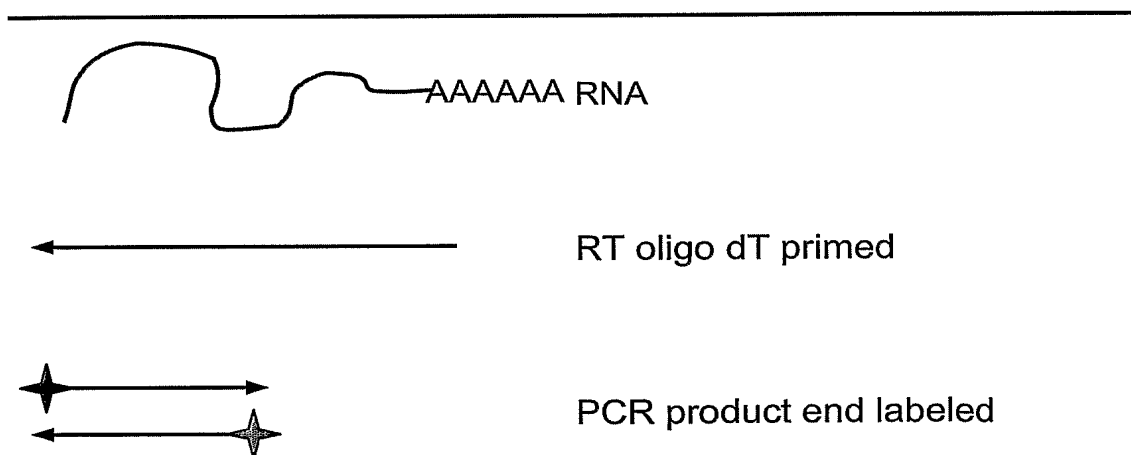


Fig. 4

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Scheme illustrating PCR amplification of specific regions within the target sequence.

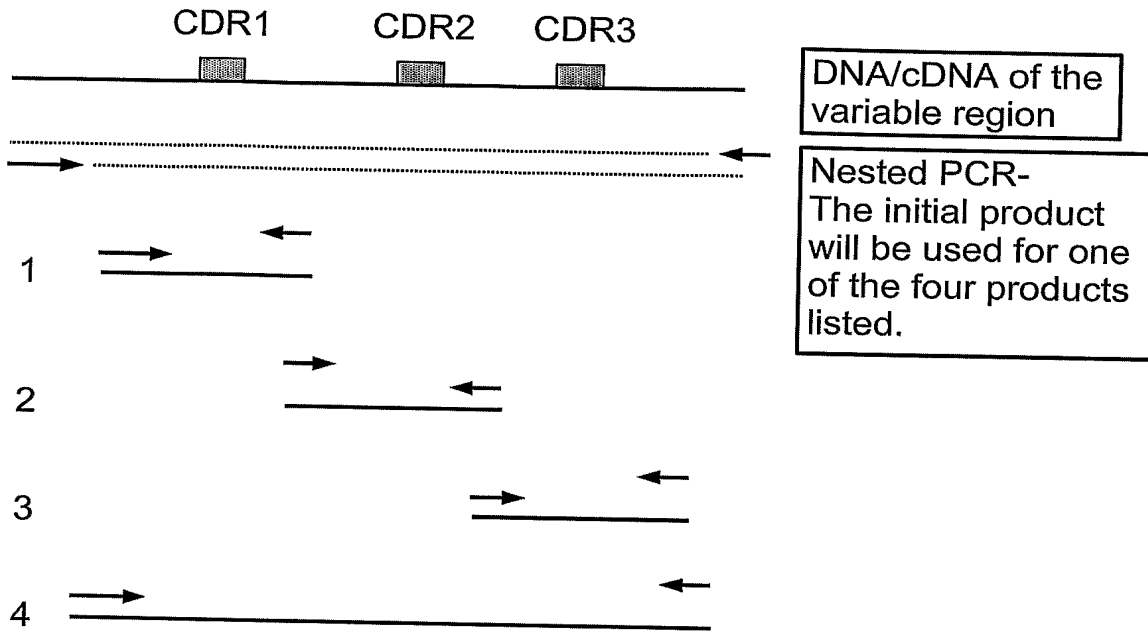
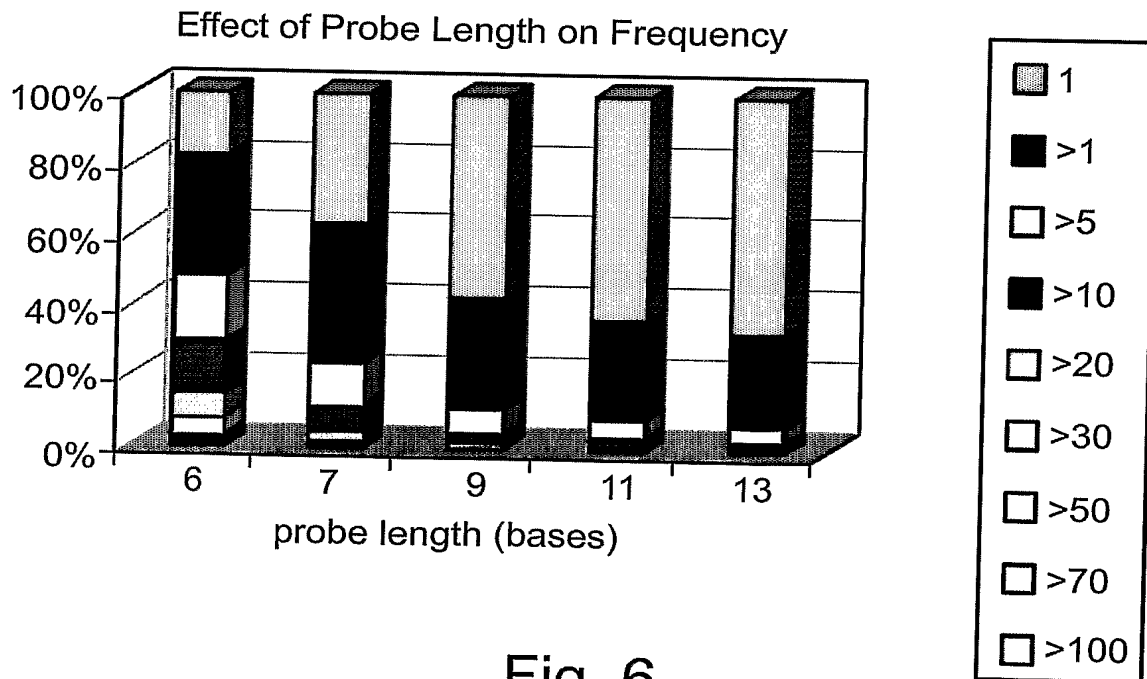


Fig. 5



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Fig. 7

CAGGTGCAGCTGGTGCAGTCTGGGGAGGCCTAGTCCAGCCGGGGGGTCCCTGAGACTCTCCTGTGCCGCTTTGGATTCAACTTCAGTTCCTA  
TGTTATGCACCTGGGTCCGCCAGGCTCCAGGGAAGGACTGGAATATCTTTACGGATTAGTAGTGATGGAGACAACATATCATGCAAACTCTG  
TGAAGGSCAGATTCAACAGCTCCAGAGACAATCCAAGAACACACTGTTCTTCAAATGGGCAGCCTGAGAACTGAGGACGCTGGCTGTCTACTAC  
TGTGCGAGAGATCGTTACTATGAGACTAGTGGTTCCAATGCTTTTGTATGTCCTGGGGCCCAAGGAACAATGGTCGTCGTCCTTC

Fig. 8

VH3-64	GI   23320665   GB	GAGGTGCAGCTGGTGGAGTCTGGGGAAGGCTTGGTCCAGCCTGGGGGTCCCTGAGACTC	60
		CAGGTGCAGCTGGTGCAGTCTGGGGAGGCGCTAGTCCAGCCGGGGGTCCCTGAGACTC	60
VH3-64	GI   23320665   GB	TCCTGTGCAGCCTCTGGATTCAACCTTCAGTAGCTATGCTATGCACCTGGGTCCGCCAGGCT	120
		TCCTGTGCCGCCCTTTGGATTCAACTTCAGTTCCTATGTTATGCACCTGGGTCCGCCAGGCT	120
VH3-64	GI   23320665   GB	CCAGGGAAGGACTGGAATATGTTTCAGCTATTAGTAGTAATGGGGTAGCACATATTAT	180
		CCAGGGAAGGACTGGAATATCTTTTCAGCGATTAGTAGTATGAGAGACAACATATCAT	180
VH3-64	GI   23320665   GB	GCAGACTCTGTGAAGGCGAGATTCAACCATCTCCAGAGACAATTCGAAGAACACGCTGTAT	240
		GCAAACTCTGTGAAGGCGAGATTCAACGCTCCAGAGACAATTCGAAGAACACACTGTTT	240
D3-22			300
VH3-64	GI   23320665   GB	CTTCAAATGGGCGAGCCTGAGAGCTGAGGACATGGCTGTGTATTACTGTGCGAGAGA	2
		CTTCAAATGGGCGAGCCTGAGAACTGAGGACGTGGCTGTCTACTACTGTGCGAGAGATCG-	296
D3-22			299
JH3	GI   23320665   GB	ATTACTATGATAGTAGTGGTTATTACTAC	360
		GATGCTTTTGATGTCTGGGGCCCAAGGACA	31
		-TTACTATGAGACTAGTGGTT-----CCAAATGCTTTTGATGTCTGGGGCCCAAGGACA	30
JH3	GI   23320665   GB		351
			420
JH3	GI   23320665   GB	ATGGTCACCGTCTCTTTCAG	49
		ATGGTCGTCGTCCTTCA	369

Fig. 9